



12SW7

DUPLEX-DIODE TRIODE

For use with 12-cell storage-battery supply

12SW7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 12.6 ac or dc volts
Current 0.15 amp.

Direct Interelectrode Capacitances-Triode Unit:0

Grid to Plate 2.4 μmf
Grid to Cathode 3.0 μmf
Plate to Cathode 2.8 μmf

Mechanical:

Mounting Position Any
Maximum Overall Length 2-5/8"
Maximum Seated Length 2-1/16"
Maximum Diameter 1-5/16"
Bulb Metal Shell, MT8G
Base Small Wafer Octal 8-Pin

Basing Designation for BOTTOM VIEW

Pin 1 - Shell
Pin 2 - Triode Grid
Pin 3 - Cathode
Pin 4 - Diode Plate No.2
Pin 5 - Diode Plate No.1
Pin 6 - Triode Plate
Pin 7 - Heater
Pin 8 - Heater



CLASS A1 AMPLIFIER

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 250 max. volts
PLATE DISSIPATION 2.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode . . . 90 max. volts
Heater positive with respect to cathode . . . 90 max. volts

Characteristics:

Plate Voltage 26.5 250 . . volts
Grid Voltage:
From a fixed supply of - -9 . . volts
From a grid resistor of 2 - . megohms
Amplification Factor 17 16
Plate Resistance 15500 8500 . . ohms
Transconductance 1100 1900 . . μmhos
Plate Current 1.1 9.5 . . ma.

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6R7.

0 with shell connected to cathode. Values are approximate.

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DIODE UNITS - Two

The two diode plates are placed around a cathode, the sleeve of which is common to the triode unit. Each diode plate has its own base pin. Diode curves in the front of the RECEIVING TUBE SECTION apply to the 12SW7.

*Additional curves applying to the 12SW7
are shown under Types 6R7, and 6SR7*